

In The Claims

Cancel claims 1-37.

38. A system for converting electrical power produced by wind generators into A.C. power for use in providing electrical power for a building to supplement or replace electrical power supply from the national grid, the system comprising one or more wind generators for producing A.C. from wind power and a control unit for converting the generated A.C. into A.C. in the same phase and at the same voltage as the A.C. supply from the national grid.

39. A system as claimed in claim 38, wherein the or each wind generator is mounted on a height adjustable pole.

40. A system as claimed in claim 39, wherein the height of the pole is telescopically adjustable.

41. A system as claimed in claim 38, wherein the or each wind generator is mounted on a platform that is itself mounted on a roof or other suitable structure.

42. A system as claimed in claim 38, wherein the wind generators are rotatably mounted.

43. A system as claimed in claim 38, wherein a wind generator is rotatably mounted on a support pole off centre thereof.

44. A system as claimed in claim 43, wherein the wind generator has a tail fin offset towards the opposite side of the support pole.

45. A system as claimed in claim 44, wherein the tail fin is spring loaded.

46. A system as claimed in claim 44, wherein the tail fin has a damper for controlling rate of reaction.

47. A system as claimed in claim 38, wherein the wind generator has a three-bladed rotor.

48. A system as claimed in claim 38, wherein A.C. current produced by the wind generators is taken through a full wave internally or externally mounted rectifier to convert it to D.C.

49. A system as claimed in claim 48, wherein from the rectifier, the D.C. is converted to square wave A.C.

50. A system as claimed in claim 49, wherein the D.C. is converted to A.C. by means of a chopper circuit.

51. A system as claimed in claim 50, having means for converting the converted A.C. to sine wave A.C.

52. A system as claimed in claim 51, wherein the means for converting A.C. to sine wave A.C. is a constant voltage transformer.

53. A system as claimed in claim 38, including means for producing the sine wave A.C., so as to be in phase with and at the same voltage as the A.C. supply from the normal utility supplier to the building.

54. A system as claimed in claim 38, provided in a box or case to which the wind generators can be connected and which itself can be connected into the electrical circuitry of the building to feed the load thereon.

55. A system as claimed in claim 38, comprising a plurality of wind generators in at least two rows, wherein generators of any one row are at a different height to those of adjacent rows and/or a wind generator of one row is offset relative to any wind generators of an adjacent row.